

APPENDIX

U. S. NUCLEAR REGULATORY COMMISSION

REGION IV

Report: 50-313/82-18
50-368/82-15

Licenses: DPR-51
NPF-6

Dockets: 50-313
50-368

Licensee: Arkansas Power and Light Company

Facility Name: Arkansas Nuclear One (ANO), Units 1 and 2

Inspection At: ANO Site, Russellville, Arkansas

Inspection Conducted: July 1-31, 1982

Inspectors: W. D. Johnson
W. D. Johnson, Senior Resident Reactor Inspector
(Paragraphs 1, 2, 3, 4, 5)

8/5/82
Date

L. J. Callan
L. J. Callan, Resident Reactor Inspector
(Paragraphs 1, 2, 3, 4, 5, 6)

8/5/82
Date

Approved: J. P. Gaudon
J. P. Gaudon, Acting Chief, Reactor Project Section C

8/13/82
Date

Inspection Summary

Inspection conducted during period of July 1-31, 1982 (Report 50-313/82-18)

Areas Inspected: Routine, announced inspection including operational safety verification, surveillance, maintenance, followup on previously identified items, and review of plant operations.

The inspection involved 52 inspector-hours onsite by two NRC inspectors.

Results: Within the five areas inspected, no violations or deviations were identified.

Inspection conducted during period of July 1-31, 1982 (Report 50-368/82-15)

Areas Inspected: Routine, announced inspection including operational safety verification, surveillance, maintenance, followup on previously identified items, and review of plant operations.

The inspection involved 57 inspector-hours onsite by two NRC inspectors.

Results: Within the five areas inspected, no violations or deviations were identified.

DETAILS SECTION

1. Persons Contacted

J. M. Levine, ANO General Manager
E. C. Ewing, Engineering & Technical Support Manager
B. A. Baker, Operations Manager
L. Sanders, Maintenance Manager
J. McWilliams, Unit 1 Operations Superintendent
M. J. Bolanis, Health Physics Superintendent
R. Wewers, Unit 2 Operations Superintendent
D. Wagner, Health Physics Supervisor
L. Dugger, Special Projects Manager
L. Humphrey, Administrative Manager
T. Baker, Technical Analysis Superintendent
R. Gillespie, Chemical and Environmental Supervisor
H. Hollis, Security Coordinator
P. Jones, Instrumentation and Controls Superintendent
V. Pettus, Mechanical Maintenance Superintendent
J. Ray, Quality Control Engineer
L. Taylor, Operations Technical Engineer

The inspectors also contacted other plant personnel, including operators, technicians, and administrative personnel.

2. Followup on Previously Identified Items (Units 1 and 2)

(Closed) Open Item 313/8007-03; 368/8007-04: Inadequate solid radwaste processing procedures.

The licensee has developed and implemented a new series of procedures that covers radioactive waste control. These new procedures (1603 series) provide adequate control of solid radioactive waste processing activities.

(Closed) Open Item 313/8010-05; 368/8010-05: Interim post accident sampling system.

The major portions of the integrated tests for the Unit 1 and 2 post accident sampling systems have been completed, and the licensee has formally accepted these systems from their construction contractor. Additionally, the licensee has developed and implemented the necessary procedures and conducted the minimum training needed to support the post accident sampling systems for both units. Therefore, the need for an interim post accident sampling system no longer exists.

(Closed) Open Item 313/8108-03: Control of toxic liquids in radiologically controlled areas.

The licensee has developed and implemented Station Administrative Procedure 1000.20, "Chemical Control," that limits admission of certain toxic chemicals into radiologically controlled areas. This procedure also provides guidance on how to handle toxic chemicals once they are inside of radiologically controlled areas.

(Closed) Open Item 313/8207-01: Decay heat removal (DHR) system flowmeter not calibrated.

The NRC inspector verified that the flowmeter and its associated transmitter were properly calibrated.

3. Monthly Surveillance Observation (Units 1 and 2)

The NRC inspector observed the Technical Specification required surveillance testing on the Unit 1 reactor protective system Channel A (Procedure 1304.37) and verified that testing was performed in accordance with adequate procedures, that test instrumentation was calibrated, that limiting conditions for operation were met, that removal and restoration of the affected components were accomplished, that test results conformed with Technical Specifications and procedure requirements, that test results were reviewed by personnel other than the individual directing the test, and that any deficiencies identified during the test were properly reviewed and resolved by appropriate management personnel.

The inspector also witnessed portions of the following test activities:

- . Unit 1 control rod drive motor exercise (Procedure 1105.09)
- . Unit 1 N₁₆ monitor quarterly test (Procedure 1304.75)
- . Unit 1 local leak rate test of the containment building escape air lock (Procedure 1304.23)
- . Unit 2 emergency diesel generator No.2 monthly test (Procedure 2104.36, Supplement 2)
- . Sample of Unit 1 and Unit 2 emergency diesel generator fuel oil (Procedures 1605.42 and 1605.44)
- . Weekly firewater pump test (Procedure 1104.32, Supplement VIII)

No violations or deviations were identified.

4. Monthly Maintenance Observation (Units 1 and 2)

Station maintenance activities of safety-related systems and components listed below were observed/reviewed to ascertain that they were conducted in accordance with approved procedures, Regulatory Guides, and industry codes or standards; and in conformance with Technical Specifications.

The following items were considered during this review: the limiting conditions for operation were met while components or systems were removed from service; approvals were obtained prior to initiating the work; activities were accomplished using approved procedures and were inspected as applicable; functional testing and/or calibrations were performed prior to returning components or systems to service; quality control records were maintained; activities were accomplished by qualified personnel; parts and materials used were properly certified; radiological controls were implemented; and fire prevention controls were implemented.

Work requests were reviewed to determine status of outstanding jobs and to assure that priority is assigned to safety-related equipment maintenance which may affect system performance.

The following maintenance activities were observed/reviewed:

- . Repair of Unit 2 containment isolation actuation signal Channel 2 (J.O. 30484)
- . Repair of the Unit 1 reactor protective system Channel D flow transmitter (J.O. 30252)
- . Troubleshooting of No. 3 cylinder on emergency diesel generator No. 2 for Unit 2 (J.O. 27560)
- . Repair of Unit 1 pressurizer level recorder 2LR-4628 (J.O. 30470)
- . Sample of lube oil in Unit 2 emergency diesel generator No. 2 (J.O. 27499)
- . Checkout/repair of the pyrometer on No. 3 cylinder of Unit 2 emergency diesel generator No. 2 (J.O. 30509)

No violations or deviations were identified.

5. Operational Safety Verification (Units 1 and 2)

The NRC inspectors observed control room operations, reviewed applicable logs, and conducted discussions with control room operators. The inspectors verified the operability of selected emergency systems, reviewed tagout records, and verified proper return-to-service of affected components. Tours of accessible areas of the units were conducted to observe plant equipment conditions, including potential fire hazards, fluid leaks, and excessive vibrations and to verify that maintenance requests had been initiated for equipment in need of maintenance. The inspectors, by observation and direct interview, verified that the physical security plan was being implemented in accordance with the station security plan.

The NRC inspectors observed plant housekeeping/cleanliness conditions and verified implementation of radiation protection controls. The NRC inspectors walked down the accessible portions of the Unit 1 control rod drive motor control system and the Unit 2 emergency feedwater discharge flow-paths from the electric-driven and turbine-driven pumps to "A" and "B" steam generators to verify operability. The inspector also witnessed portions of the radioactive waste system controls associated with rad-waste shipments and barreling.

These reviews and observations were conducted to verify that facility operations were in conformance with the requirements established under Technical Specifications, 10 CFR, and administrative procedures.

No violations or deviations were identified.

6. Review of Plant Operations (Units 1 and 2)

The NRC inspector observed the licensee's environmental sampling of pasturage at the Arkansas Tech Dairy and at Young's Dairy. Additionally, the inspector noted that environmental sampling of milk from local dairies was delegated by the licensee to the Arkansas State Health Department. The NRC inspector did not observe Health Department representatives obtain milk samples from the local dairies; but, instead, discussed the State's milk sampling procedures with the owner of Young's Dairy and a representative from Arkansas Tech Dairy. Through these discussions, the inspector determined that the milk sampling program appears adequate and is consistent with the requirements in the licensee's Environmental Technical Specifications.

No violations or deviations were identified.

7. Exit Interview

The NRC inspectors met with Mr. J. M. Levine (Plant General Manager) and other members of the AP&L staff at the end of various segments of this inspection. At these meetings, the inspectors summarized the scope of the inspection and the findings.